

AMENDMENT

Kindly amend the application, without prejudice, without admission, without surrender of subject matter, and without any intention of creating any estoppel as to equivalents, as follows.

IN THE CLAIMS:

Kindly amend the claims, without prejudice, without admission, without surrender of subject matter, and without any intention of creating any estoppel as to equivalents, to read as follows:

1-26. (Cancelled)

27. (Currently Amended) A peptide comprising a sequence selected from the group of sequences:

(i) Met-Thr-Met-Pro-Thr-Met (SEQ ID NO: 1);

(ii) Pro-Leu-Pro-Gln-Met-Leu (SEQ ID NO: 2); and

(iii) Thr-Asn-Pro-Asn-Arg-Arg-Asn-Arg-Thr-Pro-Gln-Met-Leu-Lys-Arg (SEQ ID NO: 3);

or a functional variant thereof which is at least 6 amino acids in length and which is at least 80% identical to the recited sequence and which retains its ability to bind to a causative agent of a disease or a disorder, said causative agent having SOD activity, and inhibit the causative agent's SOD and/or metal binding ability.

28. (Previously Presented) A peptide according to claim 27 that binds at or near a copper binding site of A β and physically prevents the binding of copper.

29. (Previously Presented) A peptide according to claim 27 wherein the peptide binds at or near amino acids 5-14 of human A β .

30. (Previously Presented) A peptide according to claim 27 wherein the peptide binds at or near amino acids 8-14 of human A β .

31. (Previously Presented) A peptide according to claim 27 wherein the peptide binds at or near amino acid 13 of human A β .

32. (Previously Presented) A peptide according to claim 27 that binds to A β and disrupts the conformation (or 3-D structure) of the copper binding site to reduce or totally remove its ability to bind copper and/or its SOD activity.

33. (Original) A peptide according to claim 32 that binds and disrupts the conformation of amino acids 5-14 of human A β .

34. (Original) A peptide according to claim 32 that binds and disrupts the conformation of amino acids 8-14 of human A β .

35. (Original) A peptide according to claim 32 that binds and disrupts the conformation of amino acid 13 of human A β .

36. (Previously Presented) A peptide according to claim 27 that binds to A β and reduces or totally removes its SOD activity whilst still allowing the A β to bind copper.

37. (Cancelled)

38. (Previously Presented) A non peptide peptidomimetic of a peptide according to claim 27.

39. (Cancelled)

40-44. (Cancelled)

45. (Cancelled)

46. (Cancelled)

47. (Currently Amended) A deletion functional variant of the peptide Thr-Asn-Pro-Asn-Arg-Arg-Asn-Arg-Thr-Pro-Gln-Met-Leu-Lys-Arg (SEQ ID NO: 3) which is at least 6 amino acids in length and which retains its ability to bind to a causative agent of a disease or disorder, said causative agent having SOD activity, and inhibit the causative agent's SOD and/or metal ion binding ability.